

SHV Plug to SHV Plug Cable 60 Inch Length Using ET-ET-RG142 Coax



## RF Cable Assemblies Technical Data Sheet

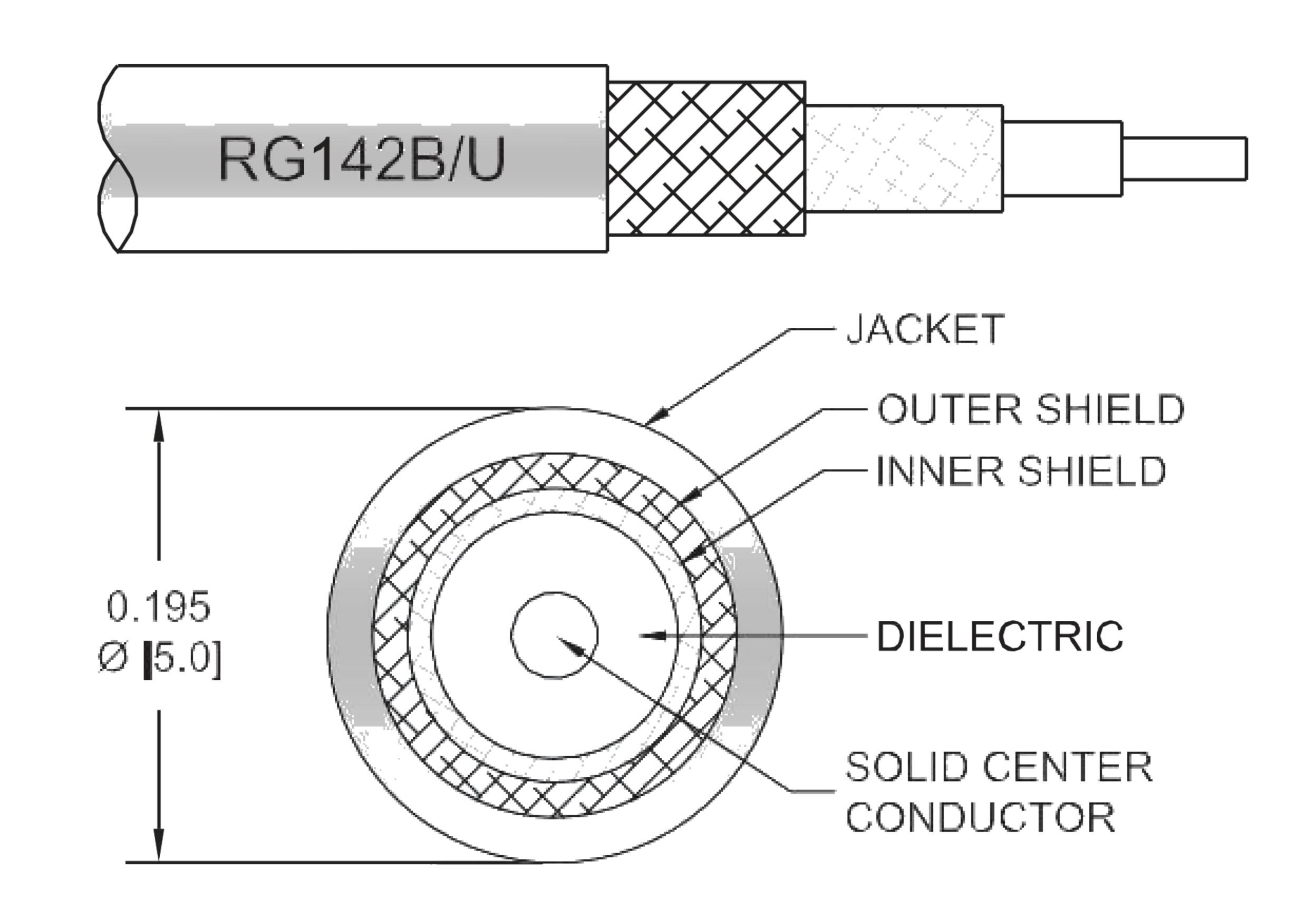
ET30200

# Configuration

Connector 1: SHV Plug
Connector 2: SHV Plug
Cable Type: ET-RG142

## Features

- Max Frequency 300 MHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



# Applications

General Purpose

Laboratory Use

#### Description

Ebeestock's ET30200 SHV plug to SHV plug 60 inch cable using ET-RG142 coax is part of our full line of RF components available for same-day shipping. Ebeestock's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Ebeestock SHV to SHV cable assembly has a plug to plug gender configuration with 50 ohm flexible ET-RG142 coax. The ET30200 SHV plug to SHV plug cable assembly operates to 300 MHz. The double shielding of this Ebeestock cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		300	MHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			1,900	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SHV Plug to SHV Plug Cable 60 Inch Length Using ET-RG142 Coax ET30200



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	300				MHz
Insertion Loss (Max.)	0.4	0.5				dB

Electrical Specification Notes:

The Insertion Loss data above is base on the performance specifications of the coax use in the assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

### Mechanical Specifications

### Cable Assembly

Length\* 60 in [152.4 cm]
Diameter 0.571 in [14.5 mm]

#### Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating

ET-RG142
50 Ohms
Solid
Copper Cla

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

Copper Clad Steel, Silver

PTFE

Silver Plated Copper Braid

Silver Plated Copper Braid

FEP, Tan

0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

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8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park, Nanzha District 5, Humen,523900, Dongguan, Guangdong, China.



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#### Connectors

Description	Connector 1	Connector 2		
Type	SHV Plug	SHV Plug		
Specification	MIL-STD-348A	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Brass, Gold	Brass, Gold		
Contact Plating Specification	30 µin minimum	30 µin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Nickel	Brass, Nickel		
Body Plating Specification	100 μin minimum	100 μin minimum		
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel		
Coupling Nut Plating Specification	100 μin minimum	100 µin minimum		

Mechanical Specification Notes:

### **Environmental Specifications**

Temperature

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:

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www.ebeestock.com

<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



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ET30200

#### How to Order

Part Number Configuration:

ET3W03503

- xx

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——Unit of Measure:

cm = Centimeters

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<br/>
<br/>
<br/>
Length

Base Number

Example: ET3W03503-12 = 12 inches long cable

ET3W03503-100cm = 100 cm long cable

SHV Plug to SHV Plug Cable 60 Inch Length Using ET-RG142 Coax from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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**URL:** https://www.ebeestock.com/shv-plug-to-shv-plug-cable-12-inch-length-using-rg142-coax-00301

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